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MONTANA OIL AND GAS
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Vol. XIX, No. 11 **NOVEMBER, 1971**

Production of crude oil and condensate from the oil and gas areas of Montana for the month of November, 1971 averaged 91,543 barrels daily, a decrease of 2,644 barrels from the average October, 1971 production of 94,187.

The nine refineries in the state processed 114,950 barrels of crude oil daily for the month of November, 1971, a decrease of 6,806 barrels from the 121,756 barrels processed daily during the month of October, 1971.

During November, 47 wells were completed, 1 oil, 10 gas and 36 dry holes.

During November the commission issued 75 permits to drill new wells, an increase of 8 from the 67 permits issued during October.

SUMMARY OF CRUDE PRODUCTION, REFINING, STORAGE, ETC., IN MONTANA
MONTH OF NOVEMBER, 1971

IN STORAGE NOVEMBER 1st	
By Producers	296,403
By Transporters	1,336,028
By Refiners	857,911
TOTAL STORAGE	2,490,342
Produced in Montana During Month	2,746,296
Imported During Month	2,718,114
TOTAL	7,954,752
DISPOSITION:	
Refined in Montana	3,448,525
Exported	1,930,844
Used for Fuel or Lost	10,461
TOTAL	5,389,830
IN STORAGE NOVEMBER 30th	
By Producers	301,156
By Transporters	1,366,437
By Refiners	897,329
TOTAL STORAGE	2,564,922

NATURAL GAS WITHDRAWALS IN MONTANA
Month of November, 1971

Field	M. C. Ft.
Bell Creek	210,800
Big Coulee	115,852
Blackjack	61,952
Bowdoin	330,115
Bowes	35,782
Cabin Creek	95,384
Cedar Creek	413,594
Cut Bank (including Regan)	429,088
Dry Creek	72,879
Elk Basin	59,057
Flat Coulee	23,080
Gold Butte	1,252
Grandview	21,916
Hardin	3,022
Keith Block	161,254
Kevin Sunburst	49,124
Lake Basin	86,683
Middle Butte	3,063
Mt. Lilly	48,082
Pine	48,147
Plevna	1,825
Tiger Ridge—Squaw Coulee	151,236
Trail Creek	21,958
Utopia	28,295
Whitlash	82,644
Miscellaneous	164,097
TOTAL	2,720,181

Total Withdrawals for November, 1970 were 3,119,776.

PRODUCERS' REPORT — MONTH OF NOVEMBER, 1971

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped By: Pipeline	Oil Shipped By: Truck	Loss or Gain	Storage End of Month
3	Ash Creek	3	175	1,481	—	1,494	—	162
1	Bainville	1	2,946	3,395	—	3,668	—	2,673
1	Bannatyne	1	—	195	195	—	—	—
5	Bear's Den	6	2,029	1,272	—	1,373	—	1,928
42	Bell Creek	307	29,022	445,692	443,434	—	120	31,160
—	Benrud	—	49	—	—	—	—	49
2	Benrud East	2	1,210	12,403	12,106	—	—	1,507
1	Benrud Northeast	1	1,314	2,241	2,501	—	—	1,054
1	Berthelote	1	347	142	212	—	—	277
6	Big Wall	19	2,056	8,063	8,195	—	—	1,924
5	Blackfoot	6	899	2,387	2,357	—	—	929
5	Border	6	1,642	789	—	771	—	1,660
1	Bowes	46	1,892	9,717	9,526	—	—	2,083
1	Bradley	1	387	595	726	—	—	256
4	Brorson-Madison	4	1,403	3,092	—	3,250	—	1,245
6	Brorson-Red River	6	4,685	9,939	—	9,892	—	4,732
3	Brorson-Red River South	3	1,855	10,659	—	10,237	—	2,277
7	Brush Lake	7	2,727	27,854	29,292	—	—	1,289
2	Cabin Creek	91	—	275,642	275,642	—	—	—
1	Canal	1	488	650	—	650	—	488
12	Cat Creek	55	2,615	18,631	15,501	2,711	—	3,034
—	Clark's Fork	—	185	—	—	—	—	185
1	Clark's Fork South	1	382	2,101	—	2,219	—	264
3	Conrad South	3	100	747	747	—	—	100
2	Cow Creek	2	452	1,290	—	1,488	—	254
1	Cow Creek East	1	—	1,883	—	1,251	—	632
1	Culbertson	1	504	1,122	—	1,246	—	380
6	Cupton	6	3,416	13,196	—	12,734	—	3,878
135	Cut Bank	890	46,997	435,500	426,950	617	498	54,432
—	Dean Dome	—	65	—	—	—	—	65
1	Deer Creek	1	881	1,209	1,377	—	—	713
1	Delphia	1	156	279	—	195	—	240
—	Devil's Basin	—	850	—	277	—	—	573
2	Dwyer	14	4,918	24,300	25,559	—	—	3,659
3	Elk Basin	46	996	132,692	132,782	—	—	906
5	Elk Basin Northwest	14	2,096	6,148	6,796	—	—	1,448
5	Fairview	10	8,478	31,229	13,632	18,670	—	7,405
2	Fertile Prairie	2	448	1,397	—	999	—	846
5	Flat Coulee	19	2,944	6,697	7,800	—	—	1,841
37	Flat Lake	50	4,241	47,673	46,909	—	—	5,005
6	Flat Lake South	6	841	8,854	8,943	—	—	752
1	Ft. Gilbert	1	202	16,639	15,679	—	—	1,162
1	Frannie	1	—	2,550	2,550	—	—	—
11	Fred and George Creek	36	2,180	29,397	29,957	—	—	1,620
1	Gage	1	25	140	—	138	—	27
3	Gas City	17	5,873	27,736	20,127	4,281	—	9,201
2	Girard	2	1,180	3,196	—	2,945	—	1,431
11	Glendive	15	3,480	26,957	27,153	—	—	3,284
26	Goose Lake	44	4,770	32,656	33,128	—	—	4,298
9	Graben Coulee	18	3,609	3,104	892	2,003	—	3,818
2	Gypsy Basin	2	944	368	368	—	—	944
1	Hay Creek-Mission Canyon	1	30	1,488	1,392	—	—	126
2	Hay Creek-Red River	2	286	14,898	13,918	—	—	1,266
4	Hlawatha	4	2,456	7,516	7,808	—	77	2,087
1	Hibbard	1	706	379	—	613	—	472
1	Iniun Creek	1	571	310	—	619	—	262
6	Ivanhoe	12	2,299	5,014	5,804	—	—	1,509
6	Jim Coulee	6	1,893	18,199	17,801	—	—	2,291
4	Keg Coulee	18	4,439	12,451	13,258	—	428	3,204
2	Keg Coulee North	2	666	486	381	—	—	771
1	Kelley	4	687	4,614	4,997	—	—	304
81	Kevin Sunburst	410	7,625	26,848	26,180	2,095	—	6,198
8	Laird Creek	10	504	3,249	—	3,294	2	457
3	Leary	3	1,145	3,669	—	3,131	57	1,626
1	Little Beaver	23	—	36,602	36,602	—	—	—
2	Little Beaver East*	12	1,293	13,373	11,865	—	—	2,801
1	Little Wall Creek	1	951	3,460	3,791	—	71	549
1	Lodge Grass	1	586	953	—	1,196	—	343
3	Lonetree Creek	3	2,327	30,542	—	30,926	—	1,943
3	Lookout Butte (Coral Creek)	3	973	67,507	66,914	—	—	1,566
2	Mason Lake	2	584	249	355	—	—	478
2	Melstone	3	587	1,676	1,797	—	—	466
1	Mineral Bench	1	508	737	822	—	—	423
1	Miner's Coulee	1	107	254	—	254	—	107
11	Monarch	14	3,314	16,299	11,967	3,254	—	4,392
3	Mosser	3	—	563	—	563	—	—
2	Otis Creek	2	353	4,599	—	4,459	—	493
6	Outlook	8	9,352	25,410	25,410	—	—	9,352
1	Outlook South	1	1,623	550	550	—	—	1,623
2	Outlook West	2	2,717	2,627	2,937	—	—	2,407
1	Pennel-Lookout Butte	112	—	143,754	143,754	—	—	—
4	Pine	112	16,549	244,323	243,905	—	—	16,967
67	Pondera	281	4,385	22,231	22,976	—	—	3,640
8	Poplar	65	9,556	47,687	48,128	—	—	9,115
3	Poplar Northwest	3	1,838	1,481	1,681	—	—	1,638
—	Prairie Elk	—	1,535	—	—	—	—	1,535
2	Pritchard Creek	2	167	749	749	—	—	167
2	Putnam	2	426	7,263	—	6,804	—	885
4	Ragged Point	12	4,217	5,897	7,868	—	—	2,246
2	Rattlesnake Coulee	2	572	458	150	—	—	880
2	Reagan	43	502	17,946	18,130	—	—	318
1	Red Creek	20	—	14,560	14,560	—	—	—
1	Red Fox	1	206	636	660	—	—	182
1	Redstone	1	443	1,795	1,961	—	—	277
1	Repeat	1	200	1,641	—	1,521	—	320
5	Reserve	5	—	8,775	8,775	—	—	—
1	Richey	1	321	649	215	—	—	755
1	Richey Southwest	1	877	2,643	—	3,042	—	478
—	Rough Creek	—	266	—	—	—	—	266
1	Rush Mountain	1	603	2,619	2,277	—	—	945
2	Salt Lake	3	869	4,319	—	4,842	—	346
4	Sand Creek	6	1,102	4,635	4,242	—	93	1,402
—	Shotgun Creek	—	248	—	—	—	—	248
1	Snyder	4	293	956	—	951	—	298
7	Soap Creek	18	2,912	4,690	—	4,657	—	2,945
1	Spring Lake	2	913	2,237	—	1,658	—	1,492
1	Stensvad	5	3,008	28,064	27,569	—	—	3,503
12	Sumatra	71	8,815	80,893	79,359	—	—	10,349
5	Tule Creek	6	3,640	25,938	—	27,230	—	2,348
2	Tule Creek East	2	992	7,514	—	7,479	—	1,027
2	Tule Creek South	3	734	3,057	—	2,810	1	980
2	Vida	2	524	1,213	—	1,258	—	479
3	Volt	4	2,058	10,493	10,536	—	—	2,015
2	Weed Creek	2	512	1,980	2,056	—	2	434
3	Weldon	3	1,164	12,005	12,386	—	—	783
1	West Butte	1	—	2,416	—	2,416	—	—
17	Whitlash	42	7,997	10,136	11,687	—	—	6,446
1	Whitlash West	1	562	173	208	—	—	527
4	Willow Creek North	4	720	3,377	3,541	—	—	556
2	Wills Creek South	2	—	2,966	2,966	—	—	—
5	Wolf Springs	7	2,666	4,078	3,727	—	—	3,017
2	Woodrow	2	616	1,880	2,083	—	—	413
5	Wright Creek	5	1,657	1,968	1,968	—	—	1,657
—	Wildcat, Blaine Cty	—	157	—	—	—	—	157
—	Wildcat, Carbon Cty	—	310	—	—	—	—	310
1	Wildcat, Daniels Cty	1	460	918	—	1,084	—	294
2	Wildcat, Glacier Cty	5	1,468	898	672	—	—	1,694
—	Wildcat, Liberty Cty	—	396	—	—	—	—	396
1	Wildcat, McCone Cty	1	—	4,050	—	3,688	—	362
—	Wildcat, Richland Cty	—	68	—	—	—	—	68
1	Wildcat, Roosevelt Cty	1	1,343	1,525	—	2,478	—	390
1	Wildcat, Toole Cty	1	—	389	389	—	—	—
751	TOTAL	3,194	296,403	2,746,296	2,535,040	205,154	1,349	301,156

Total Oil Produced and Shipped from Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1970	37,878,697	103,777	37,825,275	103,705
First Quarter, 1971	8,927,663	99,196	8,923,130	99,146
Second Quarter, 1971	8,684,548	95,435	8,715,304	95,773
Third Quarter, 1971	8,589,276	93,362	8,603,292	93,514
October, 1971	2,825,603	94,187	2,807,434	93,581
November, 1971	2,746,296	91,543	2,740,194	91,340

Oil In Storage	In Producers Field Tanks	In Transporters Storgae	In Refiners Storage ‡	Total Oil In Storage ‡
December, 1970	336,076	1,501,692	1,002,035	2,839,803
March, 1971	334,585	1,128,200	766,138	2,228,923
June, 1971	300,381	1,375,187	1,097,959	2,773,527
September, 1971	277,690	1,265,123	782,940	2,325,753
October, 1971	296,403	1,336,028	857,911	2,490,342
November, 1971	301,156	1,366,437	897,329	2,564,922

• Montana Oil Only
‡ Includes Wyoming Oil

TRANSPORTERS' MONTHLY REPORT — MONTH OF NOVEMBER, 1971

	Storage First of Month	Oil Received By			Loss or (Gain)	Oil Shipped To			Storge End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—									
Western Crude Oil, Inc.			1,494				1,494		
BAINVILLE—									
Rock Island Oil & Ref. Co.			3,668				3,668		
BEAR'S DEN—Truck			1,373				1,373		
BELL CREEK—Pipeline	66,804	443,434					264,726	200,767	44,745
BIG WALL—									
Continental Pipeline Co.		8,194				8,194			
BLACKFOOT—									
Camerland Cardinal Corp.		2,357						2,357	
BORDER—Permian Corp.			771					771	
BOWES—Texaco Inc.		9,526				9,526			
BRORSON-MADISON, BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			23,379					23,379	
BRUSH LAKE—									
Portal Pipeline Co.		29,241					29,241		
CABIN CREEK & OTHERS*—									
Butte Pipeline Co.	328,898	667,489	59,603	965,643			1,682,344		339,289
Shell Pipeline Co.	3,387	281,883			688			276,830	7,752
	332,285	949,372	59,603	965,643	688		1,682,344	276,830	347,041
CANAL—									
Rock Island Oil & Ref. Co.			650				650		
CAT CREEK—									
Continental Pipeline Co. & Truck		15,262	2,711			17,973			
CLARK'S FORK AND CLARK'S FORK SOUTH—									
Permian Corp.			2,219				2,219		
COW CREEK & COW CREEK EAST—									
Western Crude Oil, Inc.			2,739				2,739		
CULBERTSON—									
Spruce Oil Co.			1,246				1,246		
CUT BANK—									
Continental Pipeline Co.			9,091	111,474				120,565	
Phillips Petroleum Co.	65,850	171,816		9,118	4,764	144,183		48,037	49,800
Texas Pipeline Co.	21,463	47,251		75,541	411			129,136	14,708
Union Oil Co.	54,263	57,755			(276)	71,883			40,411
Western Oil Trans. Co.		46,576						46,576	
Western Oil Trans. Co. (Moulton)		107,681						107,681	
	141,576	431,079	9,091	196,133	4,899	216,066		451,995	104,919
DELPHIA—Truck			195			195			
DWYER—Portal Pipeline Co.		24,559					24,559		
ELK BASIN & ELK BASIN NORTHWEST—Marathon Pipeline		138,494				138,494			
FAIRVIEW—									
Fairview Pipeline Co.		13,632					13,632		
Rock Island Oil & Ref. Co.			18,670				18,670		
		13,632	18,670				32,302		
FLAT COULEE—									
Camerland Cardinal Corp.		7,188				7,188			
FLAT LAKE & FLAT LAKE SOUTH—									
Portal Pipeline Co.		51,097					51,097		
FT. GILBERT—									
Fairview Pipeline Co.		15,679					15,679		
FRANNIE—Interstate Pipeline Co.		2,550					2,550		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	13,530	31,484				30,259			14,755
GAGE—Truck			138			138			
GIRARD—									
Rock Island Oil & Ref. Co.			2,945				2,945		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	7,861	27,793			(429)			29,218	6,865
GOOSE LAKE—									
Portal Pipeline Co.		29,688					29,688		
HAY CREEK—									
Fairview Pipeline Co.		15,310					15,310		
HIAWATHA—									
Continental Pipeline Co.		7,481					7,481		
HIBBARD—Truck			613			613			
INJUN CREEK—Permian Corp.			619				619		
IVANHOE—									
Continental Pipeline Co.		5,805				5,805			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		14,039				12,927	1,112		
KELLEY—									
Continental Oil Co.		4,996				4,996			
KEVIN SUNBURST—									
Big West Oil Co.	1,702	30,804				25,353			7,153
Homestake Oil & Gas Co.	4,200	1,753				1,007			7,153
Texas Pipeline Co.	5,856	11,240		3,990	110			15,026	5,950
	11,758	43,797		3,990	110	26,360		15,026	18,049
LEARY—Permian Corp.			3,131				3,131		
LODGE GRASS—Permian Corp.			1,196			1,196			
MASON LAKE—									
Continental Pipeline Co.		355				355			
MELSTONE—									
Continental Oil Co.		1,342				1,342			
MIDDLE WALL**—									
Continental Popeline Co.		16,734						16,734	
MOSSER—Permian Corp.			563				563		
OTIS CREEK—									
Western Crude Oil, Inc.			4,459				4,459		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		29,669					29,669		
PONDERA—									
Phillips Petroleum Co.	35,171	23,876			1,063	32,162			25,822
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE,									
East Poplar Gathering System	19,986	71,180			(368)			75,251	16,283
PUTNAM—									
Western Crude Oil, Inc.			6,804				6,804		
RAGGED POINT—									
Continental Pipeline Co.		7,868				7,868			
RED CREEK—									
Western Oil Transportation Co		14,985						14,985	
RESERVE—Portal Pipeline Co.		10,456					10,456		
RUSH MOUNTAIN—									
Sinclair Refining Co.		2,277					2,277		
SALT LAKE—									
Rock Island Oil & Ref. Co.			4,842				4,842		
SNYDER—Permian Corp.			951			951			
SOAP CREEK—Permian Corp.			4,657				4,657		
SPRING LAKE—									
Rock Island Oil & Ref. Co.			1,658				1,658		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	703,610	108,491		2,546,606	1,214	97,488		2,474,733	785,272
TULE CREEK—									
Spruce Oil Co.	3,447		34,709			35,470			2,686
Permian Corp.			2,810			2,810			
	3,447		37,519			38,280			2,686
WEED CREEK & WOLF SPRINGS—									
Continental Pipeline Co.		5,784				5,784			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		12,603				8,230		4,373	
WILDCAT WELLS—Truck			7,250				7,250		
TOTAL	1,336,028	2,627,677	205,154	3,712,372	7,177	672,390	2,248,808	3,586,419	1,366,437

* Cabin Creek, Cupton, Fertile Prairie, Gas City, Monarch, Repeat, Richey Southwest, Vida, Weldon and Wills Creek South.
** Jim Coulee, Little Wall Creek and Willow Creek North.
‡ Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF NOVEMBER, 1971

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Spruce Oil Co.	Westco Refi. Co.	Total
Big Wall		8,194								8,194
Bowes			20,490							20,490
Cat Creek		2,086		15,147		4,261				21,494
Cut Bank	9,359						148,832		108,251	266,442
Delphia						539				539
Elk Basin		52,333		44,741	41,420					138,494
Flat Coulee									7,188	7,188
Fred & George Creek	10,259									10,259
Gage & Gage Southwest						23				23
Hibbard						1,003				1,003
Ivanhoe		5,805								5,805
Keg Coulee		2,796		10,317						13,113
Kelley					4,996					4,996
Kevin Sunburst	6,360									6,360
Lodge Grass		1,196								1,196
Mason Lake		355								355
Melstone				1,342						1,342
Pondera							18,355			18,355
Ragged Point				7,868						7,868
Snyder		951								951
Sumatra & Stensvad		19,093		78,395	14,020					111,508
Tule Creek								69,535		69,535
Weed Creek					2,056					2,056
Whitlash							9,118			9,118
Wolf Springs					3,727					3,727
Total Montana Oil	25,978	92,809	20,490	157,810	66,219	5,826	176,305	69,535	115,439	730,411
Canadian Oil Imported		107,308		236,611	300,133					644,052
Wyoming Oil Imported		802,601		403,561	867,900					2,074,062
Total Montana, Canadian and Wyoming Oil	25,978	1,002,718	20,490	797,982	1,234,252	5,826	176,305	69,535	115,439	3,448,525

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1970	24,878	25,744	65,351	115,973
November, 1970	27,209	22,838	70,081	120,128
November, 1971	24,347	21,468	69,135	114,950

PERCENTAGE OL CRUDE OIL REFINED

	Montana	Canada	Wyoming
	21.45%	22.20%	56.35%
	22.65%	19.01%	58.34%
	21.18%	18.68%	60.14%